

TESTING APPARATUS**ABSTRACT OF THE DISCLOSURE**

A testing apparatus is disclosed that is suitable for a game ball, such as a soccer ball, and a variety of other spherical or non-spherical objects. The testing apparatus includes a housing with the configuration of an air foil. A shaft extends through the housing, and a mount for securing the game ball to an end of the shaft. A motor is operatively connected to an opposite end of the shaft and is utilized to rotate the game ball in a wind tunnel. The testing apparatus also includes a sensor, such as a two-axis force balance, that detects various fluid forces upon the game ball, including a drag force and a side force, for example.